

20020528.qrp v02_n569.qrl.20020528

Date: Tue, 28 May 2002 19:03:06 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2569

QRP-L Digest 2569

Topics covered in this issue include:

- 1) [127404] Re: batteries
by Larry Cahoon <lejek@erols.com>
- 2) [127405] More Memorial Day stuff
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- 3) [127406] Q2220I-50N DDS circuit and boards and info..
by ve3ab@mail.mondenet.com
- 4) [127407] El mess-up in El Sobrante de AL7FS
by al7fs@pobox.alaska.net
- 5) [127408] FS: MFJ 9420 \$135
by Mark <mroldradios@snet.net>
- 6) [127409] HB - junkbox amp
by Harry Hurst <wa3ptg@comcast.net>
- 7) [127410] Re: WPX Results
by Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
- 8) [127411] Re: HB - junkbox amp
by Bill Meara <n2cqr@clix.pt>
- 9) [127412] Re: HB - junkbox amp
by "Leon Heller" <leon_heller@hotmail.com>
- 10) [127413] OT Icom 706 No Audio
by Tim ORourke <TORourke@KaiserFT.com>
- 11) [127414] Re: OT Icom 706 No Audio
by "Mike Yetsko" <myetsko@insydesw.com>
- 12) [127415] Re: HB - junkbox amp
by "Michael C. Boatright" <ko4wx@mindspring.com>
- 13) [127416] Re: OT Icom 706 No Audio
by "Mike Yetsko" <myetsko@insydesw.com>
- 14) [127417] OT FDIM
by hamjoel@juno.com
- 15) [127418] Re: El mess-up in El Sobrante de AL7FS
by Gary Slagel <gdslagel@yahoo.com>
- 16) [127419] The Ham Spirit & Radio Astronomy
by delphinus@brightok.net
- 17) [127420] FS: QRP stuff
by <n7dma@mindspring.com>
- 18) [127421] Re: The Ham Spirit & Radio Astronomy
by David Hinerman <WD8CIV@worldnet.att.net>
- 19) [127422] Re: The Ham Spirit & Radio Astronomy

- by "Rob Matherly" <kc0bom@arrl.net>
- 20) [127423] Announcing the 2002 FLIGHT OF THE BUMBLEBEES
by Russ Carpenter <russ@natworld.com>
- 21) [127424] FDIM Post-Banquet Photos
by "Mike Boatright" <ko4wx@mindspring.com>
- 22) [127425] Items for sale
by "johngabbard" <johngabbard@usintouch.com>
- 23) [127426] Ham Apirit and Radio Astronomy
by Richard Rood <fcsww@juno.com>
- 24) [127427] Re: The Ham Spirit & Radio Astronomy
by na5n@zianet.com
- 25) [127428] Re: HB - junkbox amp
by Steven Weber <kd1jv@moose.ncia.net>
- 26) [127429] Re: FS: QRP Stuff
by <n7dma@mindspring.com>
- 27) [127430] FT817 CAT programs
by Fred Lesnick <flesnick@tbaytel.net>
- 28) [127431] Looking for info - low cost 30 m rigs
by <mgoins@usa.net>
- 29) [127432] Re: OT Icom 706 No Audio
by "John J. McDonough" <wb8rcr@arrl.net>
- 30) [127433] RE: FT817 CAT programs
by "Dave" <wr3i@earthlink.net>
- 31) [127434] Logging program
by Rick McKee <kc8aon@juno.com>
- 32) [127435] Re: Logging program
by Dave Richards <wr3i@earthlink.net>
- 33) [127436] Re: Logging program
by "Rod N0RC" <rod@n0rc.com>
- 34) [127437] Re: OT Icom 706 No Audio
by "M.J.Powell" <mike@pickmere.demon.co.uk>

Date: Mon, 27 May 2002 23:01:28 +0000
From: Larry Cahoon <lejek@erols.com>
To: "Mike Yetsko" <myetsko@insydesw.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [127404] Re: batteries
Message-ID: <5.1.0.14.0.20020527225530.021819a0@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I just got an add from BJs to join - \$40 a year I think it was - more if I want a second card for the xyl - I passed. \$12 is good. Best sales here are at \$0.50 per cell. A good coupon can bring that down a bit closer to what you are getting. Guess you can still use coupons at BJs so that is even better. I can get a NiMH for about \$1.50 or \$2.00 per cell - up to \$3

if I want the higher capacity. Even at that price with ten uses they are a cheap as the Alkalines. Just have to be sure to keep them charged - which is kind of a pain, so I do keep some of the old Alkalines around for kids toys (they don't return the NiMH) and for flashlights (I want to be sure I have them ready when I need them).

73 de Larry.....WD3P in MD
<http://www.wd3p.net/>

At 06:41 PM 5/27/2002 -0400, Mike Yetsko wrote:

>I used to pick up 'bricks' of AA alkalines for about \$8 at BJs. Although
>the price has skyrocketed lately. Now they are up to about \$12. A
>'brick' is 40 cells. While they have gone up a lot in price, that's still
>FAR below the price you mention.

Date: Mon, 27 May 2002 18:58:48 -0400
From: nilsbull@juno.com
To: QRP-L@lehigh.edu
Subject: [127405] More Memorial Day stuff
Message-ID: <20020527.185905.-49955195.0.nilsbull@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

I just got caught up with emptying all the junk out of the garage, the outhouse/radio shed (but not the radio part), another shed on the property, the basement (a true EPA project) & was supposed to start on the attic but, at 3 p.m., it's hotter 'n the Baltimore Type Foundry up there. So I quit & started finding the floor in the radio room/office instead. In the process . . .

I now have two 2x3x2 (w/h) plastic storage boxes full of half-finished, unstarted & completely abandoned projects -- including the multiple purchases of all the parts 'cause I can't find the ones I get after a couple days and have to get more of 'em.

There's all kinds of junk in there. Like countless versions of 40m direct conversion receivers, a 75m ssb kit thingie that never panned out completely. And two huge (like one foot diameter) meters that I was gonna make a QRP SWR bridge out of to bring to home-brew night. Maybe next year.

Problem is, I really ain't got that much "get up and go" about any of this stuff now. I keep hoping there's some poor lame-brain half-crazed nut-case whack-o project junky that'd like to have two plastic storage boxes of crap. And another box that I'd have if I cleaned all the junk off the counter top in the outhouse/radio shack, which I ain't gonna get to. Yet.

I do feel pretty good about this, though. All the junk -- from the garage, the outhouse/radio shed (but not the radio part), another shed on the property, the basement (a true EPA project) -- all of that stuff has filled a roll-off dumpster nearly three quarters full. Like one of those 22-ft long, 7 ft wide, 4 ft tall thingies that construction crews fill in an early morning roofing job.

I can't believe I've collected this much crap -- and have held on to it with nearly insanely religious tenacity for the past 15 years of livin' at these digs.

Anybody wanna drop by Medway & get these plastic thingies? (Yeah, I know, I shoulda had 'em on a table next to the Survival Cracker at Dayton. But by next year there'll be three more boxes the way things accumulate around here. Like I'm some kinda gravity well for radio junk or something . . .)

All this done while remembering a picture of my father on Guadalcanal that I have. He's standing in the jungle with his helmet on and a cigarette hangin' out of his right hand, a look on his face from a time when he probably was most sure that he was truly alive. And the way I collect stuff, he still is.

73 & best memories to youse all.

Nils

Nils R. Bull Young -- El Gringo Errante --

La Estancia de los Guajolotes Sonrientes -- W8IJN --

<http://w8ijn.tripod.com>

"The island is closer than your memories are." -- Ian G. Bull Young, 11 Feb 2002

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Date: Mon, 27 May 2002 21:00:10 +0000
From: ve3ab@mail.mondenet.com
To: qrp-l@lehigh.edu
Subject: [127406] Q2220I-50N DDS circuit and boards and info..
Message-ID: <200205280100.g4S10VG28252@genesis.dmz.mondenet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I saw a post on QRP-L re the Qualcomm Q2220 DDS chip. Anyways..I have a schematic and 4 nice circuit boards..and I need this chip as well as a discontinued chip..MC10322 Video DAC chip. These two chips are the heart of this 3 to 12 mhz DDS Synthesizer.

I would like to buddy up with someone who would be interested in building one of these units. I would supply 2 circuit boards and schematic..OR..perhaps someone on the list would like to sell these two ICs..Id be interested..trading also a good possibility.

The circuit boards are real good quality and the info is dated but listed as PROPRIETARY.

ALSO..if anyone on the list has furthur info..or has built one of these units..id be interested in hearing about it as well.

ASIDE from the 2 main ICs i mentioned there are fairly easy to obtain other components used..ie..DS8921AN chip..\$5.00 from DIGIKEY and resistors,capacitors and a butterworth filter with the inductance and caps values listed..fairly simple..73 Earl VE3AB

Date: Mon, 27 May 2002 18:36:16 -0700
From: al7fs@pobox.alaska.net
To: qrp-l@lehigh.edu
Subject: [127407] El mess-up in El Sobrante de AL7FS
Message-ID: <157a218463.18463157a2@acsalaska.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-language: en
Content-transfer-encoding: 7BIT
Content-disposition: inline

Greetings from El Sobrante, CA,

I came down to the San Francisco area last week for a class and brought my SST20 and SWL20+ rigs with me. My four day class is complete and I figured I could operate the contest today and make casual QSOs during the rest of the week. I pulled out the zip-lock bag with the antenna and RG-174 feedline and low and behold.... el-messup. The dipole has no feedline, only the male bnc connection point. A friend built the

antenna for me when he borrowed my rig for a trip and I just assumed it had the feedline on it. In fact I was positive it had it. Oh, well. I will do other things til we leave on Friday.

Dumb! Next time I will lay it all out like all you hikers do before each trip.

73, Jim
in El Sobrante, California
Jim Larsen, AL7FS/6
mailto:al7fs@arrl.net
<http://www.qsl.net/al7fs/>

Date: Mon, 27 May 2002 22:17:09 -0400
From: Mark <mroldradios@snet.net>
To: qrp-l@lehigh.edu
Subject: [127408] FS: MFJ 9420 \$135
Message-ID: <3.0.6.32.20020527221709.007ed310@pop.snet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

This is the 12 watt 20 meter SSB rig. Works great, looks like new. With MFJ mic and manual. All in excellent condition. Does not include with optional CW adapter board.

\$135 plus shipping.

73,
Mark, N1MG

Date: Mon, 27 May 2002 22:19:32 -0400
From: Harry Hurst <wa3ptg@comcast.net>
To: qrp-l@lehigh.edu
Subject: [127409] HB - junkbox amp
Message-ID: <HIEKL00DELDPNBOHKICHIEPPCBAA.wa3ptg@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Over the weekend I built an amp for the .5 watt rig. It's from W1FB's Design Notebook, page 153, the book that helped me get back into radio. It

uses an MRF476, which of course, wasn't in my junkbox. I do have some 2N2219As that haven't been getting much attention lately. I reasoned that 5 parallel 2N2219As would be in the same power class as the 1 MRF476. I built the amp, adding a 5.6 ohm emitter resistors to keep things equalized. Other than that the amp is pretty much by the book. C8 was omitted, with 5 transistors in parallel, I didn't think it was needed. The amp is built with base and collector rails, like those in the 2N2/40.

The crazy thing works. Output is 4+ watts average with .5 watts input. Didn't push it any further, because .5 watts is all I have! The 2N2219As get a bit warm after key down for a minute or so, but not enough to warrant heat sinks. I increased the drive while monitoring collector current and rf output, and saw no signs of instability. Also listened through as much of the spectrum as possible for noise, there wasn't any. It was all very unscientific, but all I can manage right now.

It sure is fun trying to keep the windings on a binocular core straight.

OK, the questions: Was it reasonable to think this would work, or was I just lucky? Does anyone have any favorite way to detect instability that doesn't involve a lot of test equipment?

72s

Hap, WA3PTG

Wilmington, DE

"500 thundering milliwatts of pure power."

Date: Mon, 27 May 2002 23:35:03 -0500
From: Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [127410] Re: WPX Results
Message-ID: <200205280435.AA00822@bolshoi.cc.misu.nodak.edu>
Content-Type: text/plain
Mime-Version: 1.0 (NeXT Mail 4.2mach_patches v148.2)

Gang,

I did the WPX thing, too. :-) Spent a total of 16.5 hours operating time, which netted 135 QSOs worth 220 QSO points and 105 prefixes, for a total of 23,100 points. 31 DXCC countries worked, including the USA. 85 US and 50 DX QSOs. Worked 10, 15, and 20m. Only luck on 10 was BY2A and KH6ND -- the only two signals heard on the band at the time (Sunday afternoon). 15 and 20 were red hot Friday night. DX everywhere, and anything I heard was usually quite obliging. :-)

BY2A on 15m was a one-shot bag, not even 3 hours into the contest.

Propagation Saturday blew chunks. :-/ Seemed the bands were open, but long enough that there wasn't much stateside heard, and DX coverage was spotty at best. Would work say a DL after a few tries, find another one, louder than the first, and couldn't hit him for beans, even when he was calling CQ with no takers. Then there were the ones I could hear OK, but were also seemingly deaf to my signal. Real frustrating going, with the QSO rate average over 5 hours a paltry 6.8/hour. Burned me out bigtime, and I crashed early rather than going back for another round.

After mowing the lawn Sunday, I felt like getting back into it again, so I fired up the rig and sat down to somewhat better conditions. At least I found some stateside business this go round, which lifted my spirits, and even managed to snag a few more DX stations, though coverage continued to be real spotty. Never could snag Italy, even though I heard several of them during the course of operating. Eastern Europe was good to me, though. :-)

In hindsight, I wish I'd have found some time to work 40m. I was planning to do so Saturday, but my body had other ideas. :-/ I did drop down to 80m for a bit Friday night late, but my local noise level was about S9, and though I called a couple guys I could hear, they couldn't hear me.

The setup was an FT-817 into a Johnson Matchbox, which fed a Butternut HF-2V 80/40m vertical. Being 3/4 wave, more or less, on 15m, that's where I spent most of my time, though it also plays quite well on 10 and 20m. Have now worked DX with this setup on every band between 40 and 10m with the exception of 12m. It *does* have its limits though, and I'd have likely had much better results on Saturday if I'd had a nice beam way up there. :-) Someday when I get out of this apartment... :-)

Anyway, it was fun! :-) Wish I'd had the chance to do more operating, but for the time I put in, I'm not displeased with the results. :-)

72/73,

Todd, AG0T

Date: Tue, 28 May 2002 06:49:36 -0100
From: Bill Meara <n2cqr@clix.pt>
To: wa3ptg@comcast.net
Cc: qrp-l@lehigh.edu
Subject: [127411] Re: HB - junkbox amp

Message-ID: <1.5.4.32.20020528074936.00701154@pop.clix.pt>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hap: FB! I'd say you were skillful and fortunate! Getting the final amp to work right is not easy. For a while I thought it was me, but I recently came across an old article in SPRAT by Rocky that confirmed how difficult this can be. After suggesting a number of remedies for instability, Rocky mentioned the possible need for the sacrifice of livestock. These problems can be tough!

Your "sounds good" test is a good indication. I had low frequency spurs once and you could hear them all over the place. Take a listen with a BC band AM RX near the transmitter. If you hear a lot of junk, you have problems.

SWR meter also helps: If you know your antenna has a low SWR at the operating freq, put the new rig on that antenna and observe SWR. If SWR is high with the new rig, you know that there are some frequencies in there that do not belong.

Hope this helps. Good luck and congrats.

73 Bill CU2JL

<http://planeta.clix.pt/n2cqqr>

At 10:19 PM 5/27/02 -0400, you wrote:

>Over the weekend I built an amp for the .5 watt rig. It's from W1FB's
>Design Notebook, page 153, the book that helped me get back into radio. It
>uses an MRF476, which of course, wasn't in my junkbox. I do have some
>2N2219As that haven't been getting much attention lately. I reasoned that 5
>parallel 2N2219As would be in the same power class as the 1 MRF476. I built
>the amp, adding a 5.6 ohm emitter resistors to keep things equalized. Other
>than that the amp is pretty much by the book. C8 was omitted, with 5
>transistors in parallel, I didn't think it was needed. The amp is built
>with base and collector rails, like those in the 2N2/40.

>

>The crazy thing works. Output is 4+ watts average with .5 watts input.
>Didn't push it any further, because .5 watts is all I have! The 2N2219As
>get a bit warm after key down for a minute or so, but not enough to warrant
>heat sinks. I increased the drive while monitoring collector current and rf
>output, and saw no signs of instability. Also listened through as much of
>the spectrum as possible for noise, there wasn't any. It was all very
>unscientific, but all I can manage right now.

>

>It sure is fun trying to keep the windings on a binocular core straight.

>

>OK, the questions: Was it reasonable to think this would work, or was I just
>lucky? Does anyone have any favorite way to detect instability that doesn't

>involve a lot of test equipment?
>
>72s
>Hap, WA3PTG
>Wilmington, DE
>"500 thundering milliwatts of pure power."
>
>
>

Date: Tue, 28 May 2002 11:20:51 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: wa3ptg@comcast.net, qrp-1@Lehigh.EDU
Subject: [127412] Re: HB - junkbox amp
Message-ID: <F169r7lbUXpqekenR0w0000868e@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Harry Hurst <wa3ptg@comcast.net>
>

>OK, the questions: Was it reasonable to think this would work, or was I
>just
>lucky? Does anyone have any favorite way to detect instability that
>doesn't
>involve a lot of test equipment?

A wavemeter?

Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

MSN Photos is the easiest way to share and print your photos:
<http://photos.msn.com/support/worldwide.aspx>

Date: Tue, 28 May 2002 07:28:14 -0400
From: Tim ORourke <TORourke@KaiserFT.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [127413] OT Icom 706 No Audio
Message-ID: <0514B74864ACD511934400508BBB5E3415F73A@EMAIL1>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Anyone on list ever lost all audio on a Icom 706 MKII G?
Mine failed in middle of QSO. No phones or speaker out.
Still receiving, S meter still works in receive so the receiver is OK.
Tim KG4CHX

Date: Tue, 28 May 2002 07:57:20 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <TORourke@KaiserFT.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [127414] Re: OT Icom 706 No Audio
Message-ID: <000b01c2063e\$d4a64280\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, first thing I would do would be to divide the problem. Does it still transmit fine? If so, then any audio circuitry that is common to receive and transmit is fine.

Hey, LoFoTSS, as a former boss of mine used to say. Look for the Simple, er stuff.

Plug in an external speaker and see if it's the internal speaker...

Mike

----- Original Message -----
From: "Tim ORourke" <TORourke@KaiserFT.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, May 28, 2002 7:28 AM
Subject: OT Icom 706 No Audio

> Anyone on list ever lost all audio on a Icom 706 MKII G?

> Mine failed in middle of QSO. No phones or speaker out.
> Still receiving, S meter still works in receive so the receiver is OK.
> Tim KG4CHX
>

Date: Tue, 28 May 2002 08:06:24 -0400
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: qrp-l@lehigh.edu
Subject: [127415] Re: HB - junkbox amp
Message-ID: <5.0.2.1.2.20020528074900.02328ec0@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Harry,

I'm with Bill. I think my favorite indicator of instability is smoke! Sounds like to took the right approach...

I believe that the real art (and the real indicator that you've melted a fair bit of solder to get there) is knowing where you can "cheat" in electronic circuitry, especially WRT parts substitutions. The kind of thing that you tried, you can't learn in a book. You gotta get the rosin flowing for stuff like that.

72 de Mike, K04WX

PS--RF Parts lists MRF476's for \$13.85 and 2N2219A's at \$0.95 per. Sounds like pretty good economy. If you used the DeMaw circuit, you should have used a 33V or 39V Zener at the collector. This is a good idea, because it protects you against high SWR conditions blowing the final(s). The Vce on the 2N2219A (I just checked, I didn't know this earlier) is 50V. I use 2N5109's a lot (good to up to 2.5W) but their Vce is only 20V...

PPS--The difference between 4 Watts and 5 Watts is less than 2dB... $20 \times \log(4/5) = -1.9\text{dB}$; not going to make much difference in the signal report you get from the other end.

..
Michael C. Boatright

Date: Tue, 28 May 2002 08:06:18 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>

To: <TORourke@KaiserFT.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [127416] Re: OT Icom 706 No Audio
Message-ID: <005e01c20640\$146f3060\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

And don't rule out the speaker jack! I got a Kenwood one time with
'no audio'. It had been apart a couple of times, and the guy just
couldn't
find the problem. Worked apart on the bench, but not together.

Someone had been all over that PCB trying to find the bad connection.

Turned out the jack was flexed by pressure when the case was put on
and pressing against some wires.

Bad speaker jack....

Mike

Date: Tue, 28 May 2002 12:59:45 GMT
From: hamjoel@juno.com
To: qrp-1@Lehigh.EDU
Subject: [127417] OT FDM
Message-ID: <20020528.060029.23711.143557@webmail3.wlv.untd.com>

high Y'all
yea it's me again...
give me just a minute... ok?
High Chuck

I got to meet Chuck at the fdim thingie...even got to rub
elbows and stuffs... kinda nervous meeting a legend
u kneaux... Fdim is a good experience... a different air
about it all, hams of a different mindset...

Iffin u got u self the chance, don't miss it...
even ah was thair, i think....

KE1LA JOEL
IN MAINE
FREEZIN

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<http://dl.www.juno.com/get/web/>.

Date: Tue, 28 May 2002 06:41:29 -0700 (PDT)

From: Gary Slagel <gdslagel@yahoo.com>

To: al7fs@pobox.alaska.net,

Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [127418] Re: El mess-up in El Sobrante de AL7FS

Message-ID: <20020528134129.48565.qmail@web11605.mail.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Jim,

Had a similar deal this weekend while out hiking/camping. Had my k1 along with me and an 83' piece of wire plus 16' counterpoise for an antenna. Got my wires strung, crawled into the tent, and didn't have my little bnc connector to connect the wires to the rig.... dang!!!! But.... found that with just the right size of solid copper wire (I think about 28 guage, left over phone wire), I could put a very small crimp in it, poke it into the little hole in the center of the bnc connector and it would stay! Hooked the counterpoise to the thumb screw that holds the cover on and the tuner loaded it right up!

Did a similar thing a couple years ago with an sst. Had forgot my feedline so I took the two legs of my 20 meter dipole off the center connector. Poked one side directly in the bnc, other to a ground screw, and had a 1/4 wave vertical. Made several qsos that nite too!

Have a good time in CA.

73, Gary

--- al7fs@pobox.alaska.net wrote:

> Greetings from El Sobrante, CA,

>

> I came down to the San Francisco area last week for
> a class and brought
> my SST20 and SWL20+ rigs with me. My four day class
> is complete and I
> figured I could operate the contest today and make
> casual QSOs during
> the rest of the week. I pulled out the zip-lock bag
> with the antenna
> and RG-174 feedline and low and behold....
> el-messup. The dipole has
> no feedline, only the male bnc connection point. A
> friend built the
> antenna for me when he borrowed my rig for a trip
> and I just assumed it
> had the feedline on it. In fact I was positive it
> had it. Oh, well. I
> will do other things til we leave on Friday.
>
> Dumb! Next time I will lay it all out like all you
> hikers do before
> each trip.
>
> 73, Jim
> in El Sobrante, California
> Jim Larsen, AL7FS/6
> <mailto:al7fs@arrl.net>
> <http://www.qsl.net/al7fs/>
>

=====

Gary Slagel/N0SXX
Conifer, CO 80433
gdslagel@yahoo.com
Personal Website: <http://members.fortunecity.com/gdslagel>

Do You Yahoo!?
Yahoo! - Official partner of 2002 FIFA World Cup
<http://fifaworldcup.yahoo.com>

Date: Tue, 28 May 2002 09:30:22 US/Central
From: delphinus@brightok.net
To: qrp-l@lehigh.edu
Subject: [127419] The Ham Spirit & Radio Astronomy
Message-ID: <200205281429.JAA04176@mail2.brightok.net>

When I first joined the ranks of ham radio and the QRP-L, I was rather amazed at how many of us seemed to be interested in astronomy. Today, I found this article by one of my favorite authors, Dave Finley N1IRZ, which places the roots of Radio Astronomy with the amateur operator.

<<http://www.aoc.nrao.edu/intro/ham.connection.html>>

And now, a gratuitous effort to make this posting on topic,...I can think of two areas of overlap between Radio Astronomy and QRP:

- 1) We are often both interested in weak signal detection.
- 2) QRP emission means less interference with radio astronomy.

Are there other areas of overlap?

73 de Matthew
AD5AP

This message was sent using BrightNet MailMan.
<http://www.Brightok.net/mailman/>

Date: Tue, 28 May 2002 10:42:51 -0400
From: <n7dma@mindspring.com>
To: qrp-l@lehigh.edu
Subject: [127420] FS: QRP stuff
Message-ID: <Springmail.0994.1022596971.0.40185900@webmail.atl.earthlink.net>

Hi, Gang:

I've decided to take another plunge and build a K2. Unfortunately, I need to make some sacrifices to come up with some additional funds for the purchase. So, I have the following items for sale.

K1-4 S/N 919. (sob!) Basic rig, no mods other than the AGC mod. It's never been in the field, and has lived a comfortable life in a smoke-free, climate controlled environment (my shack!). With small padded camcorder case. \$375

SW-20+. Has Freq Mite, modified for 70+ kHz coverage (14.000 - 14.070 MHz). 10 turn pot tuning mod. \$100

MFJ 16010 Random Wire Tuner & Radio Shack SWR meter. \$25

Radio Shack HTX-100. 10 meter rig. \$75

MFJ-9030. 30 meter transciever. \$50

All items have original documentation, and are in very good, clean condition.

Please reply off list to n7dma@mindspring.com

Thanks,

Karl
N7DMA

Date: Tue, 28 May 2002 10:44:16 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [127421] Re: The Ham Spirit & Radio Astronomy
Message-ID: <5.1.0.14.1.20020528103751.00a76ec0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 09:30 AM 5/28/2002 +0000, you wrote:

>And now, a gratuitous effort to make this posting on topic,...I can think
>of two

>areas of overlap between Radio Astronomy and QRP:

>

>1) We are often both interested in weak signal detection.

>2) QRP emission means less interference with radio astronomy.

>

>Are there other areas of overlap?

Matthew:

I can think of a few:

3) The perfect antenna doesn't exist. (Although I'd give up a kidney to use the VLA.)

4) Equipment and techniques developed for high-performance astronomy and military applications eventually get used for commercial telecom and, eventually, amateur service. (DSP, for example.)

5) We're still looking for signs of intelligence.

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Tue, 28 May 2002 09:56:37 -0500
From: "Rob Matherly" <kc0bom@arrl.net>
To: <delphinus@brightok.net>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [127422] Re: The Ham Spirit & Radio Astronomy
Message-ID: <01b201c20657\$fd00ba80\$7d11a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

"Are there other areas of overlap?"

Well... people think Radio Astronomers are nuts for looking for E.T., QRO ops think
QRP'ers are nuts for not running the legal limit all the time :^)

72/73/oo
Rob, W JRM
ARRL; FP QRP -330; IA QRP #143; SOC #497; QRPp-I #19; Live-Wire #442;

Visit my website! <http://www.qsl.net/w0jrm>

"Those who control their tongue will have a long life;
a quick retort can ruin everything" -- Proverbs 13:3 NLT

Date: Tue, 28 May 2002 08:32:20 -0700
From: Russ Carpenter <russ@natworld.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [127423] Announcing the 2002 FLIGHT OF THE BUMBLEBEES
Message-ID: <B918F113.F5F4%russ@natworld.com>
Mime-version: 1.0

Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

The Adventure Radio Society is pleased to announce the 2002 Flight of the Bumblebees, to be held on Sunday, July 28. This is one of the most entertaining low power events of the year, whether you engage in a "human powered" adventure, or operate from home. Don't miss it!

If you would like to serve as a Bumblebee in 2002, please sign up by sending the contest manager, Russ Carpenter, AA7QU, an email at russ@natworld.com. As always, we will hold a lottery for the first 25 Bees to send their emails, and will award two subscriptions to Backpacker Magazine to the lucky winners.

There is no limit on the number of Bumblebees. You may apply for, and receive, a Bee number at any time, up to two days before the contest.

The rules follow. Please note one major change for this year--we are no longer giving double points for contacts on the "high" bands.

This is a four hour event during the last Sunday of July, running from 10:00 PDT/11:00 MDT/12:00 CDT/1:00 EDT to 2:00 PDT/3:00 MDT/4:00 CDT/5:00 EDT. Thus, the hours of operation accommodate all four time zones. No matter where you live, there is time to for the Bumblebees to travel to their sites, set up their stations, operate the contest, and travel back to their cars.

Both home-based and portable operations are encouraged. Participants who want to operate in the Bumblebee category apply to Adventure Radio Society for Bumblebee status. ARS assigns each Bumblebee a Bee number. Bumblebees agree to walk, bike or boat to their sites. The distance traveled to the site is at the Bumblebee's discretion. Bumblebees add "/BB" to their calls.

There is no limit on the number of Bumblebees. You may apply for, and receive, a Bee number at any time, up to two days before the contest.

Group operation is welcome in the Flight of the Bumblebees. You may operate under a single call and report a single score, or under multiple calls and report multiple scores. In any event, you are limited to operating a single transmitter at a time.

Maximum power is five watts. We operate CW on 40, 20, 15 and 10 meters, on the standard QRP frequencies. Each contact will receive one point. The same station can be worked on different bands for additional QSO points and multipliers.

If you are a Bumblebee, your exchange is RST, state/province/country, and your Bumblebee number. If you are homebased, your exchange is RST, state/province/country, and your power.

Contacts with Bumblebees generate a 3X multiplier. So your score equals QSO points times (number of Bumblebees times three). Here is an example. If you make 20 contacts on 40 meters and 30 contacts on 20 meters, and make a total of 25 Bumblebee contacts on both bands, your score is (50) X (25 X 3), or 3750.

Separate but equal commendations are awarded to the high scores for the homebased and Bumblebee participants. We will also commend Bumblebees in the following categories:

Most interesting equipment,

Most outrageous venture, and

Most beautiful site.

Participants are strongly encouraged to use our automated contest reporting system, which is found in the ARS Sojourner, <http://www.natworld.com/ars>. Participants may submit paper logs, with a two week deadline. Results are posted during the third week of August in The ARS Sojourner, the QRP-L Internet Group, and by direct email to ARS members.

You are encouraged to submit stories and photographs of your Bumblebee adventure for publication in The ARS Sojourner. See Advice for Contributors. Russ Carpenter, AA7QU, is the Contest Manager. You can reach him at russ@natworld.com

Date: Tue, 28 May 2002 12:30:07 -0400
From: "Mike Boatright" <ko4wx@mindspring.com>
To: <qrp-1@Lehigh.EDU>
Subject: [127424] FDIM Post-Banquet Photos
Message-ID: <NFBBIILMKMIILGKAJMBLIEAFCFAA.ko4wx@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Several folks had digital cameras with them during the FDIM post-banquet construction contest show and tell. Would someone kindly send me a photo or two that you took of my spectrum analyzer project? Trying to put together a webpage showing the stages of construction of the beastie and it would be nice to have a "finished" photo...

Thanks!

72 de Mike, K04WX

Date: Tue, 28 May 2002 09:34:33 -0700
From: "johngabbard" <johngabbard@usintouch.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [127425] Items for sale
Message-ID: <002301c20665\$8cfa1b60\$9a811c0c@juanita>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

1. a hi-mound BK-100 simi automatic key (bug)older type works well...sells
new for \$140.00 (discontinued now). will sell for \$60.00 shipped...2...38
Special, working, I have case but needs to be installed...\$35.
shipped...3.Foxx 3 (30 meter) xcvr...working but also needs installed in
Altoids tin...\$30. shipped ...(USA)...4. Vintage VOM...works
well...Triplet...Advertised in 1940 Seattle Radio Catalog...excellent
cond.\$30. shipped USA... thanks... john...72...kf7om.

Date: Tue, 28 May 2002 12:52:45 -0400
From: Richard Rood <fcsww@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [127426] Ham Apirit and Radio Astronomy
Message-ID: <20020528.125251.-3593769.2.fcsww@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

<http://antwrp.gsfc.nasa.gov/apod/ap020528.html>

Date: Tue, 28 May 2002 17:02:26 GMT
From: na5n@zianet.com
To: qrp-l@lehigh.edu
Subject: [127427] Re: The Ham Spirit & Radio Astronomy
Message-ID: <20020528170227.2502.qmail@zianet.com>

Mime-version: 1.0

Content-type: text/plain; charset="us-ascii"

Gang,

As someone who has worked on the electronics system for the VLA and VLBA radio telescopes for the past 25 years, I think I can add a few points with some qualification about QRP vs. radio astronomy.

1. Radio telescopes have always had a very high percentage of hams on the staffs. Until recently, there were no commercial components for the very high frequencies employed, and thus, the experientive skills of hams has always been highly used "to get things working."
2. Most radio telescopes spend very little (if any) time looking for intelligent signals, that is, SETI work. Observing time is precious, and is granted based upon submitting a proposal to use the instrument. Proposals are granted primarily on their scientific merit ... that is, what contribution it may make to the scientific community. The staggering odds of finding SETI signals in a single observing session (usually a few days to a week of telescope time) almost automatically excludes any SETI proposal from being granted. This is reserved for those facilities more suited for SETI work, not deep space astronomy.
3. In QRP (or HF communications), we are generally listening to a discrete signal, then filter it down to the narrowest bandwidth we can, so only that one signal is being processed. In radio astronomy, seldom do we "listen" to a discrete signal, but rather, measuring the total noise power in the WIDEST bandwidth we can get. This is called CONTINUUM observing, the most dominant, and is used for general mapping and measuring the temperatures of the source, calculating the red shift, and hence the distance from earth. You need plenty of bandwidth, or using different bands, to capture the black body radiation slope for performing the physics of the object. These very wide bandwidths is another reason why the VLA and VLBA are unsuitable for SETI work. For that, you need to split the signals into many narrow band signals. Intelligently generated signals are inherently narrow band. A narrow band signal showing up in a 50MHz or 1GHz bandwidth wouldn't increase the total detected power 1%, and thus would be totally missed by the correlation process. "Contact" was a neat movie, but a bit misleading in what we really do at the VLA.
4. Closer to QRP, we also observe SPECTRAL LINE. This is where we "listen" for relatively narrow band power as the result of the resonant frequency of certain molecules or elements, such as hydrogen. This is used to "find" the dominant elements in an object. By finding the EXACT spectral line frequency of hydrogen, for example, then you can calculate the exact red shift of the object (how fast it is moving away from us). This is based on the frequency the spectral line is received at vs. the theoretical (non-moving) frequency. The narrowest bandwidth used for this is 12.5KHz in the VLA; 62.5KHz in the VLBA. A 1KHz signal

would still get pretty much lost in this bandwidth. Furthermore, the narrower the bandwidth, the longer the integration time required for accurate power measurements. It has been calculated that if the VLA would look at the entire universe, narrow band, at each 1 arc second of sky for 10 seconds to detect narrow band emissions, the complete sky would take about 10,000 years to survey! Talk about job security :-)

5. The VLA/VLBA radio telescope is a very fancy multi-conversion superhet receiver. Part of the receiver (frontends, first and second mixers and IF's) are located in the antenna, the rest of the mixers and IF in the main control building. The basic architecture of these superhet receivers is not all that different from a typical QRP receiver, except we are processing wideband noise, not narrow band signals. Our IF filters are used primarily to constrain the noise bandwidth of the system, and to eliminate RFI (like those blasted cell phones and Iridium satellites).
6. It takes GOBS more power to operate a typical VLA receiver than your QRP rig!

72, Paul NA5N

National Radio Astronomy Observatory

VLA - Very Large Array (World's largest radio telescope)

VLBA - Very Long Baseline Array (Even larger)

Array Operations Center

Socorro, New Mexico

www.nrao.edu for more information

Date: Tue, 28 May 2002 13:26:48 -0400

From: Steven Weber <kd1jv@moose.ncia.net>

To: qrp-l@lehigh.edu

Subject: [127428] Re: HB - junkbox amp

Message-ID: <3.0.6.32.20020528132648.007a2b40@mailhost.ncia.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Before I had decent test equipment, I used to leave an FM radio playing in the background. If the Tx I was working on wiped out the FM radio, it was an indication the PA had gone nuts. It's no substitute for a good scope and a good scope is no substitute for a good spectrum analyzer, but the FM radio helps tell you if you have a serious problem.

Although there are a lot of reasons for instability in an amplifier, over driving it can be a cause of problems. You should monitor the collector current of the PA in addition to looking at the power out. If at some point

in turning up the drive, the collector current suddenly shoots up, that's an indication of instability. If when turning up the drive, you reach a point that the collector current starts to go up much faster than the output power, or there is little additional power coming out of the amp as the collector current increases, you have reached the point of compression. Efficiency goes down and the output starts to get "dirty". At this point it's best to back down on the drive some.

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Tue, 28 May 2002 14:16:51 -0400
From: <n7dma@mindspring.com>
To: qrp-l@lehigh.edu
Subject: [127429] Re: FS: QRP Stuff
Message-ID: <Springmail.0994.1022609811.0.75731000@webmail.atl.earthlink.net>

The following items are sold:

K1-4
MFJ-9030
SW-20+
MFJ 16010 & RS SWR meter

Thanks to all who have replied!

Karl
N7DMA

Date: Tue, 28 May 2002 16:23:07 -0400
From: Fred Lesnick <flesnick@tbaytel.net>
To: QRPL <qrp-l@Lehigh.EDU>
Subject: [127430] FT817 CAT programs
Message-ID: <3CF3E72B.CD894D82@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang:

Was wondering what CAT programs some of you are using, and how you like them.....

Please email direct.....

Fred
VE3FAL

Date: Tue, 28 May 2002 15:24:00 -0500
From: <mgoins@usa.net>
To: <qrp-l@lehigh.edu>
Subject: [127431] Looking for info - low cost 30 m rigs
Message-ID: <20020528202400.6159.qmail@uwdvg001.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Wanting to use a 30 meter rig on the bike (instead of my current 20 meter= rig). Maybe something like one of the 38 specials. =

Would like to talk off list with someone who has used it or another inexpensive rig for 30. Trying to do this low dollar so I can sort of dedicate the rig to bicycle mobile operations.

Please reply off list. Thanks.

mike
wb5yjx

Date: Tue, 28 May 2002 16:56:39 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Cc: <TORourke@KaiserFT.com>
Subject: [127432] Re: OT Icom 706 No Audio
Message-ID: <002401c2068a\$2b3f08c0\$010044c0@chartermi.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Assuming the G is similar to the MkII, you have some interesting possibilities. The audio is fed from the PLL board out P5 into J6 of the PA board. From thence it goes to the external speaker jack (no plug so presumably that's board mounted, yes, the board drawing shows it), then back to J6 where is fed to P3 and finally to the speaker. J6 is right next to the speaker jack but P5 is on the opposite side of the board. The block diagram also shows a relay between the audio amp and the speaker, on the PLL unit. One side of the relay seems to be connected to the 13 V supply, the other side has a note that says "CONNECT PHONE: 0V NO CONNECT PHONE: 13.8V". This is the output of a transistor Q5 (DTC114EE) whose input has a similar note but the voltages are 4.8 and 0. The base of the transistor is connected to J13 on a pin labeled SPS (whatever that means).

Besides the possibility of a bad external speaker jack (or a little dirt in there), there's a pile of plugs to check, before you even get near worrying about active components.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "Tim ORourke" <TORourke@KaiserFT.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, May 28, 2002 7:28 AM
Subject: OT Icom 706 No Audio

> Anyone on list ever lost all audio on a Icom 706 MKII G?
> Mine failed in middle of QSO. No phones or speaker out.
> Still receiving, S meter still works in receive so the receiver is OK.
> Tim KG4CHX

Date: Tue, 28 May 2002 17:01:22 -0400
From: "Dave" <wr3i@earthlink.net>
To: <flesnick@tbaytel.net>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [127433] RE: FT817 CAT programs
Message-ID: <FAEEKPCBNNDNKGMPIBKGEPCCCAA.wr3i@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

I'm using FT 817 Commander great prog!

Dave
WR3I

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
Fred Lesnick
Sent: Tuesday, May 28, 2002 4:23 PM
To: Low Power Amateur Radio Discussion
Subject: FT817 CAT programs

Gang:
Was wondering what CAT programs some of you are using, and how you like
them.....

Please email direct.....

Fred
VE3FAL

Date: Tue, 28 May 2002 18:04:53 -0400
From: Rick McKee <kc8aon@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [127434] Logging program
Message-ID: <20020528.180520.8958.3.kc8aon@juno.com>

Anyone know of a simple logging program that will run with Windows 95 ?
I'm looking in particular for one that resembles a standard paper log
book and will print out in that fashion - not looking for a contest
logger, just something simple for casual contacts.

Rick McKee, KC8AON
Willow Wood, Ohio
QRP - Do more with less !

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<http://dl.www.juno.com/get/web/>.

Date: Tue, 28 May 2002 18:25:26 -0400

From: Dave Richards <wr3i@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>,
kc8aon@juno.com
Subject: [127435] Re: Logging program
Message-ID: <RQQ0BA1EAJHD8HB74086FEA0ID4WSM.3cf403d6@home4>
MIME-Version: 1.0
Content-Type: text/plain; charset="windows-1252"

I will swear by LOG-EQF for my general logging
Dave
WR3I

5/28/2002 6:04:53 PM, Rick McKee <kc8aon@juno.com> wrote:

>Anyone know of a simple logging program that will run with Windows 95 ?
>I'm looking in particular for one that resembles a standard paper log
>book and will print out in that fashion - not looking for a contest
>logger, just something simple for casual contacts.

>

>

> Rick McKee, KC8AON
> Willow Wood, Ohio
>QRP - Do more with less !

>

>

>

>-----
>GET INTERNET ACCESS FROM JUNO!
>Juno offers FREE or PREMIUM Internet access for less!
>Join Juno today! For your FREE software, visit:
><http://dl.www.juno.com/get/web/>.
>

Date: Tue, 28 May 2002 16:39:56 -0600
From: "Rod N0RC" <rod@n0rc.com>
To: <kc8aon@juno.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [127436] Re: Logging program
Message-ID: <001101c20698\$98b464f0\$6601a8c0@BIGDOG>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Rick,

Give XMLog a try, www.xmllog.com. It's free!

73, Rod N0RC

----- Original Message -----

From: "Rick McKee" <kc8aon@juno.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Tuesday, May 28, 2002 4:04 PM

Subject: Logging program

> Anyone know of a simple logging program that will run with Windows

95 ?

> I'm looking in particular for one that resembles a standard paper
log

> book and will print out in that fashion - not looking for a contest

> logger, just something simple for casual contacts.

>

Date: Tue, 28 May 2002 22:48:08 +0100

From: "M.J.Powell" <mike@pickmere.demon.co.uk>

To: wb8rcr@arrl.net

Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>

Subject: [127437] Re: OT Icom 706 No Audio

Message-ID: <[Ya20s+AYs\\$88Ewbd@pickmere.demon.co.uk](mailto:Ya20s+AYs$88Ewbd@pickmere.demon.co.uk)>

MIME-Version: 1.0

In message <[002401c2068a\\$2b3f08c0\\$010044c0@chartermi.net](mailto:002401c2068a$2b3f08c0$010044c0@chartermi.net)>, John J.

McDonough <wb8rcr@arrl.net> writes

> Assuming the G is similar to the MkII, you have some interesting
> possibilities. The audio is fed from the PLL board out P5 into J6 of the PA
> board. From thence it goes to the external speaker jack (no plug so
> presumably that's board mounted, yes, the board drawing shows it), then back
> to J6 where is fed to P3 and finally to the speaker. J6 is right next to
> the speaker jack but P5 is on the opposite side of the board. The block
> diagram also shows a relay between the audio amp and the speaker, on the PLL
> unit. One side of the relay seems to be connected to the 13 V supply, the
> other side has a note that says "CONNECT PHONE: 0V NO CONNECT PHONE: 13.8V".
> This is the output of a transistor Q5 (DTC114EE) whose input has a similar
> note but the voltages are 4.8 and 0. The base of the transistor is
> connected to J13 on a pin labeled SPS (whatever that means).

>
>Besides the possibility of a bad external speaker jack (or a little dirt in
>there), there's a pile of plugs to check, before you even get near worrying
>about active components.

One of the easy bits of test equipment for a fault like this is a pair
of headphones with one wire connected to a crocodile clip for earth
(ground) and the other via a 0.01yF capacitor to a test prod. Simply
poke along the audio path until you find where the sound appears
(disappears).

I made up years ago a phone socket with the leads above fixed to it so I
can just plug in my phones to look for a fault.

Mike

--

M.J.Powell

End of QRP-L Digest 2569

